

## **ABSTRACT**

### **SHARED SCANS UTILIZING QUERY MONITOR DURING QUERY EXECUTION TO IMPROVE BUFFER CACHE UTILIZATION ACROSS MULTI-STREAM QUERY ENVIRONMENTS**

5           A system for data base management using memory devices holding a database  
containing tables of data occupying extents. A database engine reviews each query to  
determine an extents list of extents containing the data needed by that said query. A query  
monitor then re-orders the extents lists so that extents are retrieved and stored in a buffer  
cache for more efficient use when executing the queries. The database engine retrieves  
10   needed extents from the memory devices, as ordered in the extents lists, and stores those  
extents in the buffer cache. The database engine then executes one or more queries on the  
data in the extents in the buffer cache to determine respective results.